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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/912,338	07/26/2001	Hiroyuki Shinozaki	010953	5657
23850	7590 09/12/2002			
ARMSTRONG,WESTERMAN & HATTORI, LLP 1725 K STREET, NW.			EXAMINER	
SUITE 1000 WASHINGTON, DC 20006		ELKASSABGI, HEBA		
			ART UNIT	PAPER NUMBER

2834 DATE MAILED: 09/12/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

The state of the s	Application No.	Applicant(s)				
Office Action Summary	09/912,338	SHINOZAKI, HIROYUKI				
omec Action Summary	Examiner	Art Unit				
The MAILING DATE of this	Heba Elkassabgi	2834				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	. 136(a). In no event, however, may a reply be tir ply within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communication				
CAND THE WAR TO THE WA						
25) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement						
Application Papers 9\\ The specification is abjected to the standard of the specification is abjected to the specification is abjected to the standard of the specification is abjected to the standard of the specification is abjected to the standard of the specification is abjected to the spec						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priori	have been received in Application	1 No				
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.						
Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) L Notice of Informal Pate	TO-413) Paper No(s) ent Application (PTO-152)				
U.S. Patent and Trademark Office	On Summary					

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DETAILED ACTION

Drawings

1. Figures #1,#2, and #3 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim #1 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The meaning of "estimated value" needs to be disclosed in a full, clear, and concise wording as to what the estimated value maybe; is the estimated value either the current, the displacement or both; and if both, how? In addition, the electromagnetic target needs to be disclosed in a full, clear, and concise manner as to what the target maybe.

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim #1 recites the broad recitation "A magnetic bearing apparatus of a control type", and the claim also recites "a supported member without contact by the magnetic force generated by supplying a control current to a coil of the electromagnet from a power amplifier, said apparatus comprising:", which is the narrower statement of the range/limitation.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Applicants Prior Art.

Applicants Prior Art discloses in Figures 1 and 2 a magnetic bearing apparatus of a control type having a supporting electromagnet (4) that is capable of generating a magnetic force to support a supported member, without contact by a magnetic force generated by supplying a control current to a coil of the electromagnet (6) from a power amplifier (7). Further including an apparatus comprising of a current sensor (11) for detecting the control current output from the power amplifier (7), a displacement sensor (10) for detecting a displacement of the support member, and a magnetic flux for the estimating means which receives at least a control current detection signal (Si) of the current sensor (11) and a displacement detection signal (Sg) of the displacement sensor (10), for estimating a magnetic flux generated between a surface of the electromagnet (4) and the electromagnetic target (3) on the supported member.

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Wherein, an estimated value from the estimating means is fed back to the power amplifier (7).

In regards to Claim 2 the Applicants Prior Art discloses in Figure 1 a control current detection signal (Si) of the current sensor (11) is fed back to the power amplifier (7).

In regards to Claim 3 the Applicants Prior Art further discloses in Figure #2,a voltage sensor (13) for detecting a coil voltage (6) of said supporting electromagnet (4), a coil voltage detection signal (Sv) of said voltage sensor (13) being fed back to the power amplifier (7).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (703) 305-2723. The examiner can normally be reached on M-Th (6:30-3:30), and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3432 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Heba Yousri Elkassabgi September 5, 2002

NESTOR RAMIREZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800